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Body fluid replacement in surgical patient. International symposium, 1969 sponsored by departments of surgery and anaesthesiology of College of Physicians and Surgeons, Columbia University in association with Division of Medical Sciences National Research Council, edited by C. L. Fox, Jr. and G. G. Nahas 175.

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Cardiovascular surgery, 2nd ed. Handbook of operative surgery, O. C. Julian, W. S. Dye, H. Javid and others Adv. 25, May.
Cardiovascular surgery 1969. Council on cardiovascular surgery, American Heart Association, scientific sessions, Dallas, Texas, November 13-16, 1969, edited by E. B. Mahoney Adv. 21, Sept.
Cardiovascular surgery 1970. Council on cardiovascular surgery, American Heart Association, scientific sessions, Atlantic City, New Jersey, November 12-15, 1970, edited by E. B. Mahoney Adv. 24, Nov.
Complications of anesthesia, edited by L. J. Saidman and F. Moya Adv. 21, Sept.
Continuing education of surgeon. Transactions of 12th annual meeting of Allen O. Whipple Surgical Society, edited by H. G. Barker Adv. 23, Sept.
Coronary heart disease. International symposium in Frankfurt, January 22-24, 1970, edited by M. Kaltenbach and P. Lichtlen Adv. 24, Nov.
Corticosteroids in treatment of shock, edited by W. Schumer and L. M. Nyhus 85.
Current problems in surgery, edited by M. Saegesser, vol. 14, surgical oncology, edited by F. Saegesser and J. Pettavel Adv. 26, Sept.
Energy metabolism in trauma. Ciba Foundation symposium, edited by R. Porter and J. Knight Adv. 25, Nov.
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